

2024 Minority Science Programs (MSP) Research Symposium
Charlie Dunlop School of Biological Sciences, University of California, Irvine
September 23-24, 2024
Monday September 23, 2024

10:00 -11:50

POSTER PRESENTATIONS: Session 1

Poster 1	Title	Conjugative Cryptic Plasmid Captures Novel Multidrug Resistant Composite Transposon
	Presenter	Dana Mejia
	Principal Investigator	Dr. Luis Mota-Bravo, Charlie Dunlop School of Biological Sciences
Poster 2	Title	Psychedelics & Cognitive Flexibility– Investigating Psilocybin-Activated Serotonin Receptors in the Medial Prefrontal Cortex
	Presenter	Oluwadara Ogundiwin
	Principal Investigator	Dr. Peyman Golshani, University of California, Los Angeles
Poster 3	Title	Persistent Effects of Adolescent THC on Behavioral and Neural Responses to an Acute Stressor
	Presenter	Giuseppe Bravo
	Principal Investigator	Dr. Stephen Mahler, Charlie Dunlop School of Biological Sciences
Poster 4	Title	Tsc22d3 knockout mice demonstrate significant differences in excitatory and inhibitory synapse density following chronic stress exposure during adolescence
	Presenter	Nolee Bugarin
	Principal Investigator	Dr. Gyorgy Lur, Charlie Dunlop School of Biological Sciences
Poster 5	Title	Environmental <i>Klebsiella pneumoniae</i> Carries Broadly Disseminated Transposon Harboring Resistance Genes to Beta-Lactam Antibiotics
	Presenter	Angela Castillon
	Principal Investigator	Dr. Luis Mota-Bravo, Charlie Dunlop School of Biological Sciences
Poster 6	Title	Investigating the Protein Targets of Ancestral Src Kinase in <i>Salpingoeca rosetta</i>
	Presenter	Elionel Botello-Cornejo
	Principal Investigator	Dr. Florentine Rutaganira, Stanford University
Poster 7	Title	IS26 Mobile Genetic Element Targets a Conjugative Cryptic Plasmid and Forms a Cointegrate with a Multidrug Resistant Plasmid
	Presenter	Geoffrey Ortega
	Principal Investigator	Dr. Luis Mota-Bravo, Charlie Dunlop School of Biological Sciences
Poster 8	Title	The Evolution of Neural Representations During Sleep
	Presenter	Charli Taylor
	Principal Investigator	Dr. Eitan Schechtman, Charlie Dunlop School of Biological Sciences
Poster 9	Title	Investigating the Relationship Between Potent Alzheimer’s Disease Markers LAL and Amyloid-Beta
	Presenter	Katherine Ho
	Principal Investigator	Dr. Leon Coleman, University of North Carolina, Chapel Hill
Poster 10	Title	Exploring Cue-Motivated (Dys)Regulatory Pathways in Rodents
	Presenter	Gaby Arias
	Principal Investigator	Dr. Sean Ostlund, School of Medicine
Poster 11	Title	Experimental Platform to Evaluate Integrated Ultrasound and Optical Combined Imager for Breast Cancer Monitoring
	Presenter	Devin Johnson
	Principal Investigator	Dr. Regine Choe, University of Rochester

12:00 -1:00		LUNCH Natural Sciences 1, 1214 Patio
1:00 -3:00		POSTER PRESENTATIONS: Session 2
Poster 1	Title	First Report of an Environmental <i>Escherichia coli</i> Harboring the Fosfomycin Resistance Gene <i>fosA3</i> in the American Continent
	Presenter	Natalia Enriquez
	Principal Investigator	Dr. Luis Mota-Bravo, Charlie Dunlop School of Biological Sciences
Poster 2	Title	CBD Treatment Attenuates Nicotine Vaping in a Mouse Model: Differential Effects with Short- Versus Long-Term Treatment
	Presenter	Liliana Hernandez
	Principal Investigator	Dr. Christie Fowler, Charlie Dunlop School of Biological Sciences
Poster 3	Title	UBXD8 is an adapter protein that assists p97/VCP In unfolding ubiquitinated proteins
	Presenter	Devin Hemmans
	Principal Investigator	Dr. Daniel Southworth, University of California, San Francisco
Poster 4	Title	Gene gp124 in jumbo phage ϕ KZ is necessary for phage replication
	Presenter	Isabel Suarez
	Principal Investigator	Dr. Joseph Bondy-Denomy, University of California, San Francisco
Poster 5	Title	<i>TENM3</i> Expression Levels in the Entorhinal Cortex in Alzheimer's Disease
	Presenter	Jenny Medina
	Principal Investigator	Dr. Jean-Pierre Roussarie, Boston University
Poster 6	Title	First Report of <i>blaKPC-3</i> Carbapenemase Gene, Conferring Resistance to Last Resort Antibiotic, in <i>Aeromonas hydrophila</i>
	Presenter	Mohamed Bourenane
	Principal Investigator	Dr. Luis Mota-Bravo, Charlie Dunlop School of Biological Sciences
Poster 7	Title	Benchmarking general small molecule force fields using molecular dynamic solvation free energy calculations
	Presenter	Melissa Plata
	Principal Investigator	Dr. David Mobley, School of Pharmacy & Pharmaceutical Sciences
Poster 8	Title	Cannabidiol as a Treatment for Nicotine Withdrawal
	Presenter	Yesenia Venegas Perez
	Principal Investigator	Dr. Christie Fowler, Charlie Dunlop School of Biological Sciences
Poster 9	Title	<i>Escherichia coli</i> reveals the cointegration of two plasmids through replicative transposition
	Presenter	Jacy Reyes
	Principal Investigator	Dr. Luis Mota-Bravo, Charlie Dunlop School of Biological Sciences
Poster 10	Title	CXCL9 and IFN- γ Production in a Microglial <i>Igf1</i> Knockout Mouse
	Presenter	Alisa Xie
	Principal Investigator	Dr. Thomas Lane, Charlie Dunlop School of Biological Sciences
Poster 11	Title	Assessment and Enhancement of Natural Killer Cell Control of Brain Metastasis
	Presenter	Erika Zagni
	Principal Investigator	Dr. Devon Lawson, School of Medicine

2024 Minority Science Programs (MSP) Research Symposium
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September 23-24, 2024
Tuesday September 24, 2024

10:00 -11:50		POSTER PRESENTATIONS: Session 3
Poster 1	Title	First Environmental <i>Citrobacter amalonaticus</i> with a Tn4401 Unit Transposon carrying a <i>bla</i> -KPC-2 Gene that Confers Resistance to Last-Resort Antibiotics
	Presenter	Maria Aristimuno Otis
	Principal Investigator	Dr. Luis Mota-Bravo, Charlie Dunlop School of Biological Sciences
Poster 2	Title	Synthesis of a GalNAc-Configured Iminosugar to Discover Protein-Carbohydrate Interactions.
	Presenter	Priscilla Jones
	Principal Investigator	Dr. Matthew Griffin, School of Physical Sciences
Poster 3	Title	How do KDM5A Interactions with the Nucleosome Regulate its Catalytic Activity?
	Presenter	Emme Leao
	Principal Investigator	Dr. Danica Galonić Fujimori, University of California, San Francisco
Poster 4	Title	Targeting CDK9 in VHL-Deficient ccRCC
	Presenter	Monserrat Solis Casillas
	Principal Investigator	Dr. Olga Razorenova, Charlie Dunlop School of Biological Sciences
Poster 5	Title	First case of environmental <i>Raoultella ornithinolytica</i> carrying Transposon Tn4401b with a <i>bla</i> KPC-2 gene that confers resistance to last-resort antibiotics
	Presenter	Javier Lopez
	Principal Investigator	Dr. Luis Mota-Bravo, Charlie Dunlop School of Biological Sciences
Poster 6	Title	AMPA Receptor GluA1 Cytoplasmic Tail Truncation Disrupts Spatial Memory in Aged Mice
	Presenter	Alexis Madrid
	Principal Investigator	Dr. Javier Diaz-Alonso, School of Medicine
Poster 7	Title	Environmental <i>Escherichia coli</i> ST131 Isolate found in Central Park Carries Multidrug-Resistant Transposon with Clinically Relevant <i>bla</i> CTX-M-15 Gene
	Presenter	Rosanna Awad
	Principal Investigator	Dr. Luis Mota-Bravo, Charlie Dunlop School of Biological Sciences
Poster 8	Title	Modulation of Bacterial Iron Starvation and Virulence in the Gut
	Presenter	Bryan Vasquez
	Principal Investigator	Dr. Karen Guillemin, University of Oregon
Poster 9	Title	Biophysical Characterization of Antarctic Toothfish γ -Proteins
	Presenter	Vanessa Encinas
	Principal Investigator	Dr. Rachel W. Martin, School of Physical Sciences
Poster 10	Title	Modulation of Cocaine-Associated Behavior via HDAC3-Y298H: Unveiling Epigenetic Mechanisms of Addiction
	Presenter	Annette Ibarra-Kenny
	Principal Investigator	Dr. Marcelo Wood, Charlie Dunlop School of Biological Sciences

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